

# NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

## FACT SHEET

(Pursuant to NAC 445A.874)

Permittee Name: **Washoe County Community Services Department,  
Engineering and Capital Projects Division**

Type of Project: **Aquifer Recharge**

Project Name: **Golden Valley Recharge Project** Address: **1001 E. Ninth Street, Building A**

Permit Action: **Renewal - UIC Permit**

**Reno, Nevada 89520**

Permit Number: **UNEV91008**

Permitted Injection Wells (#): **Four (4)**

### A. Description of Discharge

**Location:** The four injection wells are located in the eastern half of Golden Valley, Sections 2 and 11, T20, R19E, Washoe County, Nevada.

Injection Well	Section	Well Depth (ft bls <sup>1</sup> )	Screen Interval (ft bls <sup>1</sup> )	Latitude, Longitude
GVI – 1	11	254	124-249	39°36'53"N, 119°48'36"W
GVI – 3	11	450	250-445	39°37'17"N, 119°48'43"W
GVI – 4	11	450	240-445	39°37'06"N, 119°48'40"W
GVI – 5	2	404	160-400	39°37'18"N, 119°49'31"W

<sup>1</sup>ft bls-feet below land surface

Note: GVI – 2 was plugged in 1996; monitoring well GV1 was plugged in 2014.

**Characteristics:** All injectate is treated surface water and/or groundwater delivered according to an agreement with Truckee Meadows Water Authority (TMWA) for the purpose of aquifer recharge. The water meets all primary and secondary drinking water standards.

### B. Synopsis

2015 Update: Monitoring well GV1 has been removed from the permit due to gravel mining operations that have led to the well being plugged in 2014. The Nevada Division of Environmental Protection (NDEP) will not require a replacement well in this area due to the long-term dataset, and the mining operations are likely to interfere with any proposed well locations. Monitoring well GV4 has been added to the permit during this renewal at the Permittee's request.

Note: The Washoe County Community Services Department (WCCSD) has been submitting reports each July for the period of July-June of each year. With the 2008 renewal, the permit reporting period was changed to a calendar year; with the annual report due by January 31<sup>st</sup> to coincide with their reporting to the Nevada Division of Water Resources.

#### 2008 Update:

WCCSD operated the artificial recharge pilot system from December 1992 – March 1998, after which it returned to service once new funding sources were established in October 2002. From July 2006 – June 2007, approximately 22,230,000 gallons of water were injected into wells GVI-1, GVI-3, GVI-4, and GVI-5. WCCSD installed an activated carbon filter for the wells prior to the injection of water. The filter removes suspended solids, chlorine, and trihalomethane (THM) from the injectate before injection.

Treated Truckee River water is delivered to the Golden Valley site through a closed system. Treatment of the municipal water is completed by TMWA prior to delivery and is followed by on-site carbon filtration. Four 8-inch diameter injection wells approximately 250 feet deep in eastern Golden Valley undergo low pressure injection or gravity flow to a zone approximately 250 feet

below the ground surface. A domestic supply of groundwater is produced from a shallow alluvial aquifer present from the water surface down to a depth of about 120 feet, and an underlying fractured bedrock aquifer which extends to depths beyond 300 feet. Water levels range from 20 to 200 feet below the ground surface. WCCSD injects approximately 80 acre-feet of water on an annual basis to help offset water level declines in the aquifers. Water chemistry and water levels are closely monitored during injection and groundwater monitoring cycles. WCCSD has acquired the necessary water rights and has gained the support and/or approval of the major interests in Truckee River water.

**C. Receiving Water Characteristics**

The receiving water is groundwater of the Golden Valley alluvial and fractured rock aquifers. Modeling indicates that injectate and receiving waters are chemically compatible. The proposed discharge is not within a Wellhead Protection Area or a Drinking Water Protection Area.

**D. Procedures for Public Comment**

The Notice of the Division's intent to renew a permit authorizing the facility to discharge to the groundwater of the State of Nevada is being sent to the *Reno Gazette-Journal* for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator. All written comments received during the comment period will be retained and considered in the final determination.

A public hearing on the proposed determination can be requested by the applicant, any affected state, any affected interstate agency, the regional administrator of EPA Region IX or any interested agency, person or group of persons.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings will be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

**E. Proposed Determination**

The Division has made the tentative determination to reissue the proposed 5 year permit.

**F. Proposed Effluent Limitations and Special Conditions**

See Part I.A of the permit.

**G. Rationale for Permit Requirements**

Monitoring is required to verify that the quality of water injected remains constant and to confirm that the injection of water does not adversely affect the existing hydrologic regime.